



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EGW-2-LED-17L-DA-S-50-80.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3609  
 [TESTLAB] TUV SUD America  
 [TESTDATE] 12/10/2018 10:21:02 AM  
 [ISSUEDATE] 03/11/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] EGW-2-LED-17L-DA-S-50-80  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Indoor  
 [SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16930
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	130
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.33 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25032	21353	21400
55	22327	18013	17719
65	19284	14194	13746
75	15905	10323	9691
85	11928	6181	4628

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	5756	5756	5756	5756	5756	5756	5756	5756	5756	5756
2.5	5750	5754	5758	5744	5748	5744	5758	5754	5750	5754
5.0	5732	5737	5740	5728	5733	5728	5740	5737	5732	5737
7.5	5704	5709	5711	5703	5711	5703	5711	5709	5704	5709
10.0	5662	5667	5670	5664	5670	5664	5670	5667	5662	5667
12.5	5607	5611	5615	5610	5619	5610	5615	5611	5607	5611
15.0	5540	5545	5549	5545	5553	5545	5549	5545	5540	5545
17.5	5465	5469	5472	5468	5476	5468	5472	5469	5465	5469
20.0	5376	5381	5385	5378	5384	5378	5385	5381	5376	5381
22.5	5275	5280	5284	5271	5278	5271	5284	5280	5275	5280
25.0	5161	5165	5168	5152	5153	5152	5168	5165	5161	5165
27.5	5037	5039	5040	5018	5020	5018	5040	5039	5037	5039
30.0	4896	4900	4896	4873	4874	4873	4896	4900	4896	4900
32.5	4747	4750	4742	4717	4715	4717	4742	4750	4747	4750
35.0	4586	4588	4572	4549	4545	4549	4572	4588	4586	4588
37.5	4414	4414	4393	4370	4363	4370	4393	4414	4414	4414
40.0	4232	4228	4203	4176	4171	4176	4203	4228	4232	4228
42.5	4037	4032	4004	3974	3962	3974	4004	4032	4037	4032
45.0	3835	3827	3791	3759	3743	3759	3791	3827	3835	3827
47.5	3624	3613	3572	3537	3509	3537	3572	3613	3624	3613
50.0	3403	3390	3347	3307	3271	3307	3347	3390	3403	3390
52.5	3174	3161	3117	3067	3031	3067	3117	3161	3174	3161
55.0	2943	2928	2882	2825	2781	2825	2882	2928	2943	2928
57.5	2714	2695	2643	2585	2536	2585	2643	2695	2714	2695
60.0	2489	2464	2408	2346	2299	2346	2408	2464	2489	2464
62.5	2267	2240	2176	2112	2066	2112	2176	2240	2267	2240
65.0	2052	2024	1953	1888	1845	1888	1953	2024	2052	2024
67.5	1838	1812	1736	1670	1631	1670	1736	1812	1838	1812
70.0	1630	1607	1530	1461	1424	1461	1530	1607	1630	1607
72.5	1431	1409	1334	1261	1227	1261	1334	1409	1431	1409
75.0	1237	1221	1146	1070	1041	1070	1146	1221	1237	1221
77.5	1051	1040	962	881	844	881	962	1040	1051	1040
80.0	871	858	790	706	669	706	790	858	871	858
82.5	705	699	637	550	503	550	637	699	705	699
85.0	558	553	501	416	358	416	501	553	558	553
87.5	429	426	384	307	247	307	384	426	429	426
90.0	324	323	290	227	183	227	290	323	324	323
92.5	243	244	218	172	157	172	218	244	243	244
95.0	185	184	165	138	144	138	165	184	185	184
97.5	142	142	128	120	139	120	128	142	142	142
100.0	111	111	102	111	138	111	102	111	111	111
102.5	90	90	86	105	136	105	86	90	90	90
105.0	74	75	76	101	132	101	76	75	74	75
107.5	64	65	69	96	125	96	69	65	64	65
110.0	57	57	64	90	116	90	64	57	57	57
112.5	52	52	58	82	105	82	58	52	52	52
115.0	48	46	53	74	95	74	53	46	48	46
117.5	44	41	48	66	83	66	48	41	44	41
120.0	39	36	42	58	73	58	42	36	39	36
122.5	35	31	37	51	63	51	37	31	35	31
125.0	32	27	31	44	54	44	31	27	32	27
127.5	27	23	25	38	47	38	25	23	27	23
130.0	24	20	20	33	40	33	20	20	24	20
132.5	20	16	15	29	35	29	15	16	20	16

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**CANDELA TABULATION - (Cont.)**

135.0	17	13	12	25	30	25	12	13	17	13
137.5	14	11	11	21	25	21	11	11	14	11
140.0	11	8	10	18	22	18	10	8	11	8
142.5	10	8	9	16	19	16	9	8	10	8
145.0	9	9	10	14	16	14	10	9	9	9
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	5756	5756	5756	5756	5756	5756	5756
2.5	5758	5744	5748	5744	5758	5754	5750
5.0	5740	5728	5733	5728	5740	5737	5732
7.5	5711	5703	5711	5703	5711	5709	5704
10.0	5670	5664	5670	5664	5670	5667	5662
12.5	5615	5610	5619	5610	5615	5611	5607
15.0	5549	5545	5553	5545	5549	5545	5540
17.5	5472	5468	5476	5468	5472	5469	5465
20.0	5385	5378	5384	5378	5385	5381	5376
22.5	5284	5271	5278	5271	5284	5280	5275
25.0	5168	5152	5153	5152	5168	5165	5161
27.5	5040	5018	5020	5018	5040	5039	5037
30.0	4896	4873	4874	4873	4896	4900	4896
32.5	4742	4717	4715	4717	4742	4750	4747
35.0	4572	4549	4545	4549	4572	4588	4586
37.5	4393	4370	4363	4370	4393	4414	4414
40.0	4203	4176	4171	4176	4203	4228	4232
42.5	4004	3974	3962	3974	4004	4032	4037
45.0	3791	3759	3743	3759	3791	3827	3835
47.5	3572	3537	3509	3537	3572	3613	3624
50.0	3347	3307	3271	3307	3347	3390	3403
52.5	3117	3067	3031	3067	3117	3161	3174
55.0	2882	2825	2781	2825	2882	2928	2943
57.5	2643	2585	2536	2585	2643	2695	2714
60.0	2408	2346	2299	2346	2408	2464	2489
62.5	2176	2112	2066	2112	2176	2240	2267
65.0	1953	1888	1845	1888	1953	2024	2052
67.5	1736	1670	1631	1670	1736	1812	1838
70.0	1530	1461	1424	1461	1530	1607	1630
72.5	1334	1261	1227	1261	1334	1409	1431
75.0	1146	1070	1041	1070	1146	1221	1237
77.5	962	881	844	881	962	1040	1051
80.0	790	706	669	706	790	858	871

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82.5	637	550	503	550	637	699	705
85.0	501	416	358	416	501	553	558
87.5	384	307	247	307	384	426	429
90.0	290	227	183	227	290	323	324
92.5	218	172	157	172	218	244	243
95.0	165	138	144	138	165	184	185
97.5	128	120	139	120	128	142	142
100.0	102	111	138	111	102	111	111
102.5	86	105	136	105	86	90	90
105.0	76	101	132	101	76	75	74
107.5	69	96	125	96	69	65	64
110.0	64	90	116	90	64	57	57
112.5	58	82	105	82	58	52	52
115.0	53	74	95	74	53	46	48
117.5	48	66	83	66	48	41	44
120.0	42	58	73	58	42	36	39
122.5	37	51	63	51	37	31	35
125.0	31	44	54	44	31	27	32
127.5	25	38	47	38	25	23	27
130.0	20	33	40	33	20	20	24
132.5	15	29	35	29	15	16	20
135.0	12	25	30	25	12	13	17
137.5	11	21	25	21	11	11	14
140.0	10	18	22	18	10	8	11
142.5	9	16	19	16	9	8	10
145.0	10	14	16	14	10	9	9
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2111.03	N.A.	12.50
0-30	4488.63	N.A.	26.50
0-40	7344.87	N.A.	43.40
0-60	12837.64	N.A.	75.80
0-80	15987.05	N.A.	94.40
0-90	16530.66	N.A.	97.60
10-90	15985.38	N.A.	94.40
20-40	5233.84	N.A.	30.90
20-50	8155.99	N.A.	48.20
40-70	7430.87	N.A.	43.90
60-80	3149.41	N.A.	18.60
70-80	1211.31	N.A.	7.20
80-90	543.61	N.A.	3.20
90-110	286.03	N.A.	1.70
90-120	346.88	N.A.	2.00
90-130	379.85	N.A.	2.20
90-150	399.51	N.A.	2.40
90-180	399.51	N.A.	2.40
110-180	113.48	N.A.	0.70
0-180	16930.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	545.28
10-20	1565.75
20-30	2377.61
30-40	2856.23
40-50	2922.15
50-60	2570.62
60-70	1938.1
70-80	1211.31
80-90	543.61
90-100	190.25
100-110	95.78
110-120	60.85
120-130	32.96
130-140	14.77
140-150	4.90
150-160	0.00
160-170	0.00
170-180	0.00

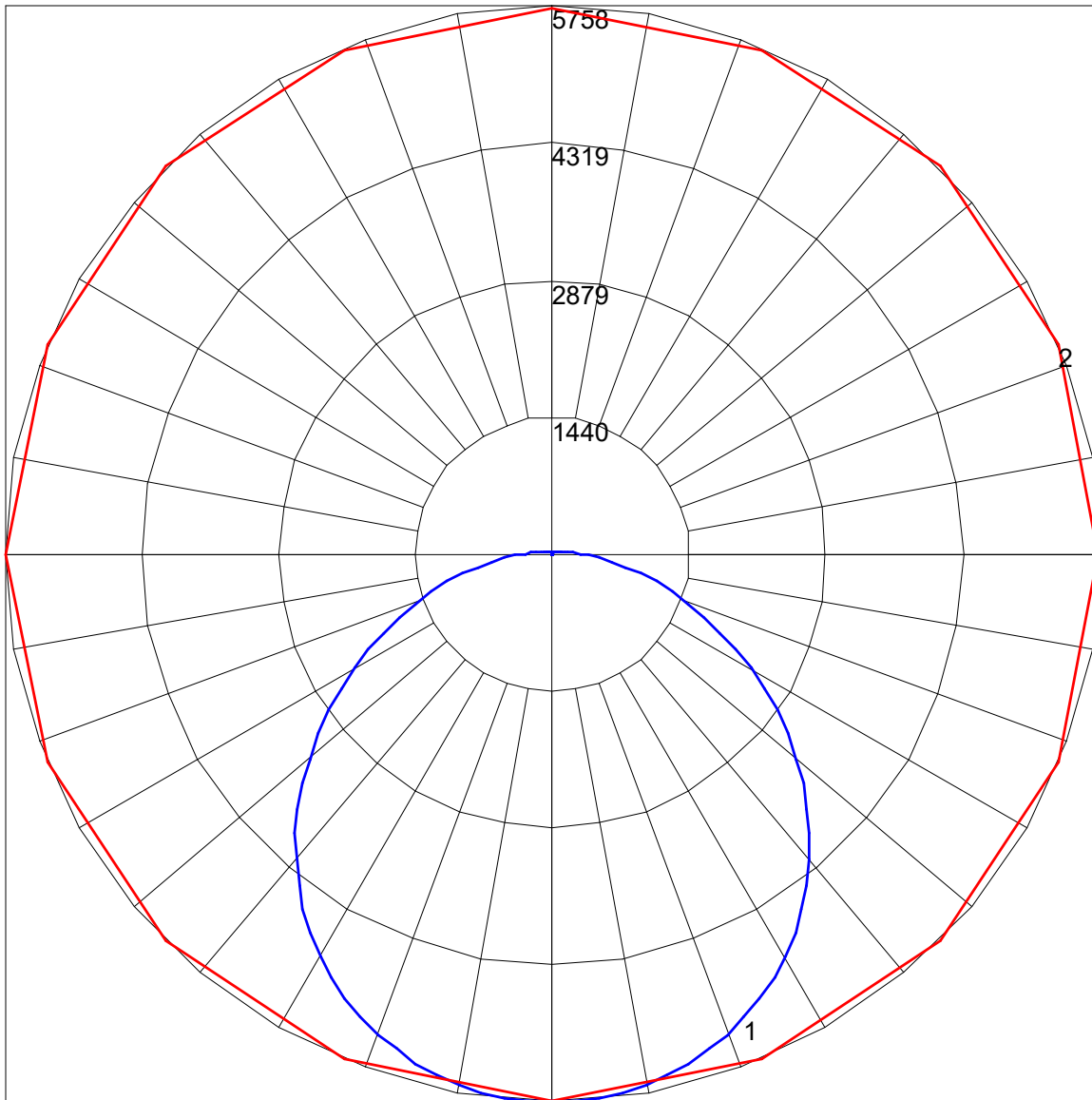
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	36
7	64	51	42	36	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	31	29
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 5758 Located At Horizontal Angle = 45, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)